

Appendix F: SSTEMP Model Run Output

Rio Chama Calibration Run for 9/27/02

"SSTEMP (1.2.2) ", "10/31/2002 11:51 am"
"NoName"
"English", "Segment Inflow (cfs)", "7.110"
"English", "Inflow Temperature (°F)", "57.000"
"English", "Segment Outflow (cfs)", "11.280"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.790"
"English", "Segment Length (mi)", "11.720"
"English", "Upstream Elevation (ft)", "7620.00"
"English", "Downstream Elevation (ft)", "7310.00"
"English", "Width's A Term (s/ft²)", "9.140"
"English", "B Term where W = A*Q**B", "0.329"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "54.320"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langleys/d)", "439.069"
"English", "Total Shade (%)", "11.300"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "09/27"
"Predicted Mean (°F) = 55.31"
"Estimated Maximum (°F) = 65.80"
"Approximate Minimum (°F) = 44.82"

From thermograph data at Rio Chama @ HWY 95:

Actual mean temp (°F) 9/27/02 = 57.6	Error = ± 4.0%
Acutal max temp (°F) 9/27/02 = 64.6	Error = ± 1.9%
Actual min temp (°F) 9/27/02 = 52.3	Error = ± 14.3%

Rio Chama Run 1 for 8/30/98 -- initial run

"SSTEMP (1.2.2) ", "10/31/2002 02:17 pm"
"NoName"
"English", "Segment Inflow (cfs)", "7.110"
"English", "Inflow Temperature (°F)", "64.000"
"English", "Segment Outflow (cfs)", "11.280"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.790"
"English", "Segment Length (mi)", "11.720"
"English", "Upstream Elevation (ft)", "7620.00"
"English", "Downstream Elevation (ft)", "7310.00"
"English", "Width's A Term (s/ft²)", "9.140"
"English", "B Term where W = A*Q**B", "0.329"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "56.460"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langley's/d)", "543.673"
"English", "Total Shade (%)", "11.300"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 59.34"
"Estimated Maximum (°F) = 70.12"
"Approximate Minimum (°F) = 48.55"

Rio Chama Run 2 for 8/30/98 -- change Total Shade to 22.0%

"SSTEMP (1.2.2) ", "10/31/2002 02:29 pm"
"NoName"
"English", "Segment Inflow (cfs)", "7.110"
"English", "Inflow Temperature (°F)", "64.000"
"English", "Segment Outflow (cfs)", "11.280"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.790"
"English", "Segment Length (mi)", "11.720"
"English", "Upstream Elevation (ft)", "7620.00"
"English", "Downstream Elevation (ft)", "7310.00"
"English", "Width's A Term (s/ft²)", "9.140"
"English", "B Term where W = A*Q**B", "0.329"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "56.460"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langley/d)", "543.673"
"English", "Total Shade (%)", "22.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
 "Predicted Mean (°F) = 58.18"
 "Estimated Maximum (°F) = 67.93"
 "Approximate Minimum (°F) = 48.42"

Rio Chama Run 3 for 8/30/98 -- change Total Shade to 17.5% and Width's A Term to 7.0

"SSTEMP (1.2.2) , "10/31/2002 02:28 pm"
"NoName"
"English", "Segment Inflow (cfs)", "7.110"
"English", "Inflow Temperature (°F)", "64.000"
"English", "Segment Outflow (cfs)", "11.280"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.790"
"English", "Segment Length (mi)", "11.720"
"English", "Upstream Elevation (ft)", "7620.00"
"English", "Downstream Elevation (ft)", "7310.00"
"English", "Width's A Term (s/ft²)", "7.000"
"English", "B Term where W = A*Q**B", "0.329"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "56.460"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langley/s/d)", "543.673"
"English", "Total Shade (%)", "17.500"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
 "Predicted Mean (°F) = 58.30"
 "Estimated Maximum (°F) = 67.92"
 "Approximate Minimum (°F) = 48.69"

Rio Chama Run FINAL for 8/30/98 -- Total Shade to 17.5% and Width's A Term to 7.0 (to include 10% MOS in solar radiation component)

"SSTEMP (1.2.2) ","10/31/2002 04:16 pm"
"NoName"
"English", "Segment Inflow (cfs)", "7.110"
"English", "Inflow Temperature (°F)", "64.000"
"English", "Segment Outflow (cfs)", "11.280"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.790"
"English", "Segment Length (mi)", "11.720"
"English", "Upstream Elevation (ft)", "7620.00"
"English", "Downstream Elevation (ft)", "7310.00"
"English", "Width's A Term (s/ft²)", "7.000"
"English", "B Term where W = A*Q**B", "0.329"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "56.460"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langleys/d)", "543.673"
"English", "Total Shade (%)", "26.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 57.44"
"Estimated Maximum (°F) = 66.23"
"Approximate Minimum (°F) = 48.64"

Chavez Creek Calibration Run for 8/30/02

"SSTEMP (1.2.2) ", "10/31/2002 10:35 am"
"NoName"
"English", "Segment Inflow (cfs)", "0.000"
"English", "Inflow Temperature (°F)", "32.000"
"English", "Segment Outflow (cfs)", "1.930"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.740"
"English", "Segment Length (mi)", "12.590"
"English", "Upstream Elevation (ft)", "10500.0"
"English", "Downstream Elevation (ft)", "7570.00"
"English", "Width's A Term (s/ft²)", "16.100"
"English", "B Term where W = A*Q**B", "0.164"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "50.810"
"English", "Relative Humidity (%)", "77.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langleys/d)", "542.907"
"English", "Total Shade (%)", "10.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 58.24"
"Estimated Maximum (°F) = 72.00"
"Approximate Minimum (°F) = 44.48"

From thermograph data at Chavez @ HWY 512:

Actual mean temp (°F) 8/30/02 = 57.2	Error = ± 1.8%
Acutal max temp (°F) 8/30/02 = 62.8	Error = ± 14.6%
Actual min temp (°F) 8/30/02 = 52.0	Error = ± 14.6%

Chavez Creek Run 2 for 8/30/02 -- change Total Shade to 28%

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"SSTEMP (1.2.2)  ","10/31/2002 02:31 pm"
"NoName"
"English",      "Segment Inflow (cfs)",           "0.000"
"English",      "Inflow Temperature (°F)",        "32.000"
"English",      "Segment Outflow (cfs)",          "1.930"
"English",      "Accretion Temp. (°F)",          "43.400"
"English",      "Latitude (degrees)",            "36.740"
"English",      "Segment Length (mi)",           "12.590"
"English",      "Upstream Elevation (ft)",         "10500.0"
"English",      "Downstream Elevation (ft)",       "7570.00"
"English",      "Width's A Term (s/ft²)",          "16.100"
"English",      "B Term where W = A*Q**B",        "0.164"
"English",      "Manning's n",                  "0.037"
"English",      "Air Temperature (°F)",           "50.810"
"English",      "Relative Humidity (%)",         "77.000"
"English",      "Wind Speed (mph)",              "8.000"
"English",      "Ground Temperature (°F)",        "43.400"
"English",      "Thermal gradient (j/m²/s/C)",    "1.650"
"English",      "Possible Sun (%)",              "76.000"
"English",      "Dust Coefficient",             "6.500"
"English",      "Ground Reflectivity (%)",        "18.000"
"English",      "Solar Radiation (Langley/s/d)", "542.907"
"English",      "Total Shade (%)",               "28.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
    "Predicted Mean (°F) = 55.97"
    "Estimated Maximum (°F) = 67.95"
    "Approximate Minimum (°F) = 44.00"
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Chavez Creek Run 3 for 8/30/02 -- change Total Shade to 26% and Width's A Term to 8.6

"SSTEMP (1.2.2) ", "10/31/2002 03:40 pm"
"NoName"
"English", "Segment Inflow (cfs)", "0.000"
"English", "Inflow Temperature (°F)", "32.000"
"English", "Segment Outflow (cfs)", "1.930"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.740"
"English", "Segment Length (mi)", "12.590"
"English", "Upstream Elevation (ft)", "10500.0"
"English", "Downstream Elevation (ft)", "7570.00"
"English", "Width's A Term (s/ft²)", "8.500"
"English", "B Term where W = A*Q**B", "0.164"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "50.810"
"English", "Relative Humidity (%)", "77.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langleys/d)", "542.907"
"English", "Total Shade (%)", "26.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 55.38"
"Estimated Maximum (°F) = 67.93"
"Approximate Minimum (°F) = 42.84"

**Chavez Creek Run FINAL for 8/30/02 -- Total Shade to 34% and Width's A Term to 8.6
(to include 10% MOS in solar radiation component)**

"SSTEMP (1.2.2) ", "10/31/2002 04:25 pm"
"NoName"
"English", "Segment Inflow (cfs)", "0.000"
"English", "Inflow Temperature (°F)", "32.000"
"English", "Segment Outflow (cfs)", "1.930"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.740"
"English", "Segment Length (mi)", "12.590"
"English", "Upstream Elevation (ft)", "10500.0"
"English", "Downstream Elevation (ft)", "7570.00"
"English", "Width's A Term (s/ft²)", "8.500"
"English", "B Term where W = A*Q**B", "0.164"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "50.810"
"English", "Relative Humidity (%)", "77.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langleyes/d)", "542.907"
"English", "Total Shade (%)", "34.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
 "Predicted Mean (°F) = 54.41"
 "Estimated Maximum (°F) = 66.02"
 "Approximate Minimum (°F) = 42.80"

Rio Brazos Calibration Run for 8/30/02

"SSTEMP (1.2.2) ", "11/18/2002 11:46 am"
"NoName"
"English", "Segment Inflow (cfs)", "11.900"
"English", "Inflow Temperature (°F)", "59.900"
"English", "Segment Outflow (cfs)", "13.900"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.750"
"English", "Segment Length (mi)", "3.520"
"English", "Upstream Elevation (ft)", "7570.00"
"English", "Downstream Elevation (ft)", "7367.00"
"English", "Width's A Term (s/ft²)", "12.300"
"English", "B Term where W = A*Q**B", "0.249"
"English", "Manning's n", "0.039"
"English", "Air Temperature (°F)", "56.450"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langleys/d)", "543.884"
"English", "Total Shade (%)", "15.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 58.96"
"Estimated Maximum (°F) = 70.22"
"Approximate Minimum (°F) = 47.70"

From thermograph data at Brazos @ HWY 84:

Actual mean temp (°F) 8/30/02 = 65.6	Error = ± 10.0%
Acutal max temp (°F) 8/30/02 = 75.9	Error = ± 7.5%
Actual min temp (°F) 8/30/02 = 54.9	Error = ± 13.1%

Rio Brazos Run 2 for 8/30/02 -- change Total Shade to 27.5%

"SSTEMP (1.2.2) ,,"11/18/2002 11:48 am"
"NoName"
"English", "Segment Inflow (cfs)", "11.900"
"English", "Inflow Temperature (°F)", "59.900"
"English", "Segment Outflow (cfs)", "13.900"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.750"
"English", "Segment Length (mi)", "3.520"
"English", "Upstream Elevation (ft)", "7570.00"
"English", "Downstream Elevation (ft)", "7367.00"
"English", "Width's A Term (s/ft²)", "12.300"
"English", " B Term where W = A*Q**B", "0.249"
"English", "Manning's n", "0.039"
"English", "Air Temperature (°F)", "56.450"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langleys/d)", "543.884"
"English", "Total Shade (%)", "27.500"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
" Predicted Mean (°F) = 58.14"
" Estimated Maximum (°F) = 67.94"
" Approximate Minimum (°F) = 48.34"

Rio Brazos Run 3 for 8/30/02 -- change Total Shade to 22% and Width's A Term to 8.3

"SSTEMP (1.2.2) ","11/18/2002 11:49 am"
"NoName"
"English", "Segment Inflow (cfs)", "11.900"
"English", "Inflow Temperature (°F)", "59.900"
"English", "Segment Outflow (cfs)", "13.900"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.750"
"English", "Segment Length (mi)", "3.520"
"English", "Upstream Elevation (ft)", "7570.00"
"English", "Downstream Elevation (ft)", "7367.00"
"English", "Width's A Term (s/ft²)", "8.300"
"English", "B Term where W = A*Q**B", "0.249"
"English", "Manning's n", "0.039"
"English", "Air Temperature (°F)", "56.450"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langley/s/d)", "543.884"
"English", "Total Shade (%)", "22.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 58.29"
"Estimated Maximum (°F) = 67.94"
"Approximate Minimum (°F) = 48.63"

**Rio Brazos Run FINAL for 8/30/02 -- Total Shade to 29.8% and Width's A Term to 8.3
(to include 10% MOS in solar radiation component)**

"SSTEMP (1.2.2) ", "11/18/2002 11:51 am"
"NoName"
"English", "Segment Inflow (cfs)", "11.900"
"English", "Inflow Temperature (°F)", "59.900"
"English", "Segment Outflow (cfs)", "13.900"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.750"
"English", "Segment Length (mi)", "3.520"
"English", "Upstream Elevation (ft)", "7570.00"
"English", "Downstream Elevation (ft)", "7367.00"
"English", "Width's A Term (s/ft²)", "8.300"
"English", "B Term where W = A*Q**B", "0.249"
"English", "Manning's n", "0.039"
"English", "Air Temperature (°F)", "56.450"
"English", "Relative Humidity (%)", "64.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "25.000"
"English", "Solar Radiation (Langleyes/d)", "543.884"
"English", "Total Shade (%)", "29.800"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
 "Predicted Mean (°F) = 57.89"
 "Estimated Maximum (°F) = 66.65"
 "Approximate Minimum (°F) = 49.13"

Rito de Tierra Amarilla Calibration Run for 8/30/98

"SSTEMP (1.2.2) ", "11/18/2002 01:51 pm"
"NoName"
"English", "Segment Inflow (cfs)", "1.310"
"English", "Inflow Temperature (°F)", "61.520"
"English", "Segment Outflow (cfs)", "1.000"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.660"
"English", "Segment Length (mi)", "15.800"
"English", "Upstream Elevation (ft)", "8290.00"
"English", "Downstream Elevation (ft)", "7150.00"
"English", "Width's A Term (s/ft²)", "10.820"
"English", "B Term where W = A*Q**B", "0.158"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "55.550"
"English", "Relative Humidity (%)", "66.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langleys/d)", "540.810"
"English", "Total Shade (%)", "5.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
 "Predicted Mean (°F) = 61.94"
 "Estimated Maximum (°F) = 74.54"
 "Approximate Minimum (°F) = 49.35"

From thermograph data at Rito de Tierra Amarilla @ HWY 112:

Actual mean temp (°F) 8/30/02 = 71.42 Error = ± 13.3%
Actual max temp (°F) 8/30/02 = 85.10 Error = ± 12.4%
Actual min temp (°F) 8/30/02 = 59.9 Error = ± 17.6%

Rito de Tierra Amarilla Run 2 for 8/30/98 -- change Total Shade to 20%

"SSTEMP (1.2.2) , "11/18/2002 02:38 pm"
"NoName"
"English", "Segment Inflow (cfs)", "1.310"
"English", "Inflow Temperature (°F)", "61.520"
"English", "Segment Outflow (cfs)", "1.000"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.660"
"English", "Segment Length (mi)", "15.800"
"English", "Upstream Elevation (ft)", "8290.00"
"English", "Downstream Elevation (ft)", "7150.00"
"English", "Width's A Term (s/ft²)", "10.820"
"English", " B Term where W = A*Q**B", "0.158"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "55.550"
"English", "Relative Humidity (%)", "66.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langley/s/d)", "540.810"
"English", "Total Shade (%)", "20.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 60.09"
"Estimated Maximum (°F) = 71.48"
"Approximate Minimum (°F) = 48.70"

Rito de Tierra Amarilla Run 3 for 8/30/98 -- change Total Shade to 36%

"SSTEMP (1.2.2) ", "11/18/2002 02:18 pm"
"NoName"
"English", "Segment Inflow (cfs)", "1.310"
"English", "Inflow Temperature (°F)", "61.520"
"English", "Segment Outflow (cfs)", "1.000"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.660"
"English", "Segment Length (mi)", "15.800"
"English", "Upstream Elevation (ft)", "8290.00"
"English", "Downstream Elevation (ft)", "7150.00"
"English", "Width's A Term (s/ft²)", "10.820"
"English", "B Term where W = A*Q**B", "0.158"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "55.550"
"English", "Relative Humidity (%)", "66.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langleyes/d)", "540.810"
"English", "Total Shade (%)", "36.000"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
 "Predicted Mean (°F) = 58.03"
 "Estimated Maximum (°F) = 67.97"
 "Approximate Minimum (°F) = 48.10"

Rito de Tierra Amarilla Run FINAL for 8/30/98 -- Total Shade to 42.5% (to include 10% MOS in solar radiation component)

"SSTEMP (1.2.2) ", "11/18/2002 04:38 pm"
"NoName"
"English", "Segment Inflow (cfs)", "1.310"
"English", "Inflow Temperature (°F)", "61.520"
"English", "Segment Outflow (cfs)", "1.000"
"English", "Accretion Temp. (°F)", "43.400"
"English", "Latitude (degrees)", "36.660"
"English", "Segment Length (mi)", "15.800"
"English", "Upstream Elevation (ft)", "8290.00"
"English", "Downstream Elevation (ft)", "7150.00"
"English", "Width's A Term (s/ft²)", "10.820"
"English", "B Term where W = A*Q**B", "0.158"
"English", "Manning's n", "0.037"
"English", "Air Temperature (°F)", "55.550"
"English", "Relative Humidity (%)", "66.000"
"English", "Wind Speed (mph)", "8.000"
"English", "Ground Temperature (°F)", "43.400"
"English", "Thermal gradient (j/m²/s/C)", "1.650"
"English", "Possible Sun (%)", "76.000"
"English", "Dust Coefficient", "6.500"
"English", "Ground Reflectivity (%)", "18.000"
"English", "Solar Radiation (Langley/d)", "540.810"
"English", "Total Shade (%)", "42.500"
"Dam at Head of Segment", "Unchecked"
" Maximum Air Temp (°F)", "Unchecked"
"Solar Radiation", "Disabled"
"Total Shade", "Enabled"
"Month/day", "08/30"
"Predicted Mean (°F) = 57.18"
"Estimated Maximum (°F) = 66.46"
"Approximate Minimum (°F) = 47.89"